

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

ECS Part Numbers	Frequency
ECS-094.9453-CDX-0313	9.49453 MHz
ECS-098.4375-CDX-0314	9.84375 MHz
ECS-120.9375-CDX-0315	12.09375 MHz
ECS-130.625-CDX-0316	13.0625 MHz
ECS-135.60-CDX-0317	13.560 MHz

Electrical Characteristics

Parameters	Value
Frequency Tolerance @ +25°C	± 30 PPM Max.
Temperature Stability (-10° to +70°C)	± 50 PPM Max.
Equivalent Series Resistance	30 Ohms Max.
Motional Capacitance	10 fF Typ.
Load Capacitance	10 pF
Crystal Q	70K Min.
Shunt Capacitance	5 pF Max.
Drive Level	500 µW Max.
Aging (First Year @ +25°C)	± 5 PPM Max.
Operating Temperature	-10 to +70°C
Storage Temperature	-30 to +85°C

Package Dimensions (mm)

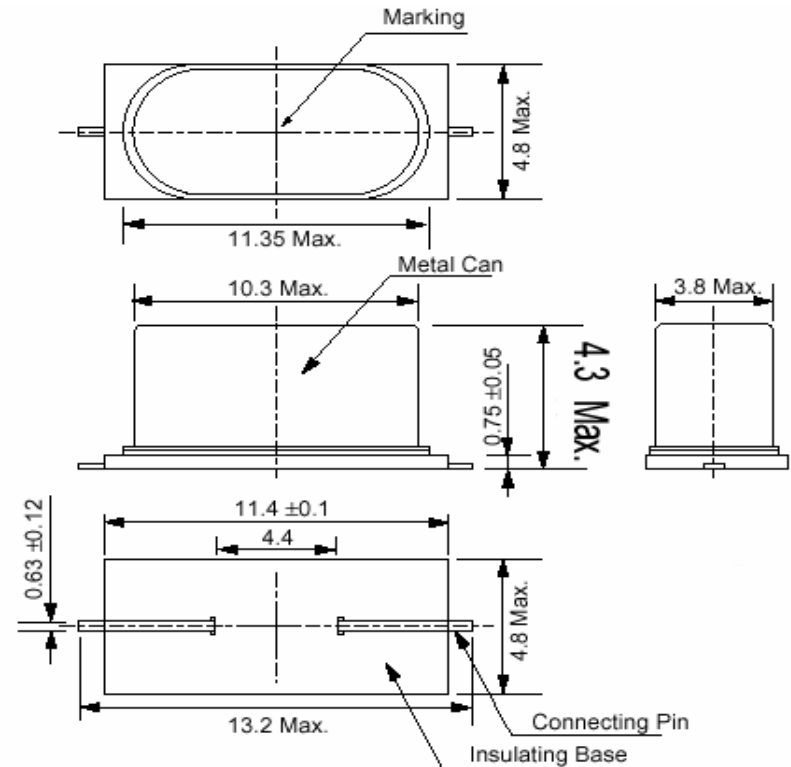


Figure 1) Top, Side, Bottom and End views



SIGNATURES		DATE	TITLE	ECS INC. INTERNATIONAL 1105 S. Ridgeview Olathe, KS 66062 (913) 782-7787 www.ecsxtal.com	
DRN	RC	9/19/2005	CSM-7 SMD Crystal for Micrel Transmitter IC	REV	
CHK	BL	9/19/2005		-	
APP	DK	9/19/2005		-	
Dimensions in mm			SIZE A	DWG NO CDX-0313-0317	REV
			CAGE CODE: 1G8B7	SHEET 1 OF 1	